

Work Experience

<b>Hexcoderz, Vasco da Gama - Goa (Intern)</b> Developed proficiency in UI/UX fundamentals, Figma, HTML, CSS, and JavaScript.	<b>Sep 2021 - Nov 2021</b> Project lead
<b>Club Mahindra Resort, Varca Beach - Goa (Intern)</b> improved and maintained hotel guest wireless networks for smooth operation.	<b>Jun 2022 - Jul 2022</b> Network Administrator
<b>YUVA panaji Website - Goa (Fullstack, Developer)</b> Led the design and development of the website Designed and integrated a dashboard to manage content on the website	<b>Apr 2024 - May 2024</b> Project lead

Projects

<b>Axon</b> <ul style="list-style-type: none"><li>Enables users to submit Study material to generate a quiz of minimum 10 questions, this allows the user to benchmark themselves to know how much they have studied.</li><li>Leveraged GPU Acceleration to speed up response time by 88% (from 50s - 6s)</li><li>Integrated a RAG system, users can ask questions to the document and axon will reply with the most correct and suitable answer from the documents. <a href="https://github.com/ryzxxn/Axon">https://github.com/ryzxxn/Axon</a></li></ul>
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<b>LeafSync</b> <ul style="list-style-type: none"><li>Engineered a SQL database management tool which allowed me to make and view updates to my Database in real time, ensuring a Seamless user experience.</li><li>Achieved efficient CPU usage (0.3%) and optimized RAM usage (30-90MB) for enhanced performance.</li><li>Rendering and state-dependent views loads in an instant (90% faster then something like PhpMyAdmin) <a href="https://github.com/ryzxxn/LeafSync/">https://github.com/ryzxxn/LeafSync/</a></li></ul>
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<b>Personal Image Storage</b> <ul style="list-style-type: none"><li>Implemented Images/Gifs storage and delivery using the imgBB API for over 10+ users.</li><li>Unlimited Storage, upload up to 32mb/image enough for 90% of images captured by modern camera devices.</li><li>Extended it Privacy and security by implementing Google Authentication <a href="https://pis.netlify.app/">https://pis.netlify.app/</a></li></ul>
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<b>Real-time Multiplayer Pixel Art Canvas</b> <ul style="list-style-type: none"><li>Real-time Pixel Drawing Canvas application synchronized across connected clients with latency less than 6ms.</li><li>Canvas size(50x50) 2500px all synced using Websocket by only updating changed pixel reducing network bandwidth by 98% <a href="https://pixel-io.netlify.app/">https://pixel-io.netlify.app/</a></li></ul>
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Skills & Other

<b>Languages</b>	C/C++, Javascript, HTML, CSS, Java, Typescript, Python, PHP, SQL, NoSQL, Shell
<b>Technical</b>	React.js, Next.js, Express, Three.js, Websockets, flask, AWS, Google Cloud , Docker, Figma, Blender , Photoshop, PremierPro, React Native, Data Structures, AI, Machine Learning, LLM, FastAPI, CLI, CI/CD, Github, Linux, Latex, Data Analysis, Database Design, MongoDB, System Design, Firebase, Auth
<b>Soft-skills</b>	Leadership, Open, Public Speaking, Prioritization, Analytical Reasoning

Achievements

<b>Game Development</b> (reimagined space invaders using Scratch) <ul style="list-style-type: none"><li>Achieved 3rd place at a game making competitions</li></ul>
<b>Project Exhibition</b> <ul style="list-style-type: none"><li>Runner up for a project exhibition, where we displayed our project evergreen (plant, and essentials e-commerce platform),This netted us the attention of a few founder of startup that we later collaborated on how we could play a crucial role in bridging the gap between clients and suppliers by providing a platform to showcase their trades</li></ul>
<b>API (MISTRAL) LLM running on local-CPU</b> <a href="https://github.com/katanaml/llm-mistral-invoice-cpu">https://github.com/katanaml/llm-mistral-invoice-cpu</a> <b>(OpenSource)</b> <ul style="list-style-type: none"><li>Integrated accessibility and ease of use by replacing CLI (Command Line Interface) with an API</li></ul>
<b>Hackathon (24h)</b> <ul style="list-style-type: none"><li>Participated in a Hackathon at Goa College of Engineering Where I first worked on <b>Axon</b>,This gave me a great perspective on Time management, how to work in a team, Adapt to new technologies and defining clear Goals and working relentlessly to achieve them</li></ul>

Education

<b>Bachelor's Degree in Computer Engineering Fatorda, Goa</b> Don Bosco College of Engineering	<b>Apr 2022 - May 2025</b> CGPA: 7.00
<b>Diploma in Computer Engineering Verna, Goa</b> Agnel Polytechnic	<b>Jan 2019 - mar 2022</b> CGPA: 8.00

Extra Curricular

- Inter-School art competition : Secured 1st place.
- Organized Incarnate an inter-College, School, Diploma Artwork competition,45+ students participated.